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# Review of Applied Entomology

## Series B

### Medical and Veterinary

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## ERRATA

Volume 77 (1989)

### Abstract No.

- 92 after '*Orthellia lauta*' insert '[*Neomyia lauta*']
- 228 for 'DOBROKOTOV, B.' read 'DOBROKHOTOV, B. P.'
- 281 for 'PAU, N. R.' read 'PAU, R. N.'
- 282 for 'PAU, N. R.' read 'PAU, R. N.'
- 338 for 'KALYANASUNDRAM, M.' read 'KALYANASUNDARAM, M.'
- 416 for '*Parachartergas*' read '*Parachartergus*'
- 443 for 'SANCHEZ ACEBO, C.' read 'SANCHEZ-ACEDO, C.'
- 561 after '*Oreochromis mossambicus*' insert '[*Tilapia mossambica* ]'
- 1059 for '*Ornithomyia*' read '*Ornithomya*'
- 1278 for 'MUNASINGHA, N. B.' read 'MUNASINGHE, N. B.'
- 1466 for 'POINER, G. O., JR.' read 'POINAR, G. O., JR.'
- 1589 for 'BECKER-FELDMAN, H.' read 'BECKER-FELDMANN, H.'
- 2098 after '*Tricholipeurus parallelus*' insert '[*Damalinea parallela* ]'
- 2098 after '*T. lipeuroides*' insert '[*D. lipeuroides* ]'
- 2282 for 'MORGAN, D. E.' read 'MORGAN, E. D.'
- 2343 for 'SCHAEFFER, C. H.' read 'SCHAEFER, C. H.'
- 2442 after '*O. papillipes*' insert '[*O. tholozani* ]'
- 2446 after '*Ornithodoros papillipes*' insert '[*O. tholozani* ]'
- 2461 after '*Ornithodoros papillipes*' insert '[*O. tholozani* ]'
- 2465 after '*O. papillipes*' insert '[*O. tholozani* ]'
- 2589 after '*Bdellonyssus bursa*' insert '[*Ornithonyssus bursa* ]'
- 2611 for 'FRISTROM, W. J.,' read 'FRISTROM, J. W.'
- 2657 for 'RAGHVENDRA, K.' read 'RAGHAVENDRA, K.'
- 2720 after '*S. albiceps*' insert '[*Parasarcophaga albiceps* ]'
- 2749 after '*Metriocnemus hygropetricus*' insert '[*M. obscuripes* ]'
- 2750 after '*Metriocnemus hygropetricus*' insert '[*M. obscuripes* ]'
- 2776 after '*V. xanthoptera*' insert '[*V. simillima xanthoptera* ]'
- 2778 after '*V. xanthoptera*' insert '[*V. simillima xanthoptera* ]'
- 2781 for '*Vespa germanica*' read '*Vespula germanica*'
- 2832 after '*Hyalomma plumbeum*' insert '[*H. marginatum* ]'
- 2835 for '*paulistensis*' read '*paulistanensis*'
- 2880 after '*Oreochromis niloticus*' insert '[*Tilapia nilotica* ]'
- 3093 after '*Cuterebra lepusculi*' insert '[*C. princeps* ]'
- 3149 for '*saphirina*' read '*sapphirina*'
- 3192 after '*A. beklemishevi*' insert '[*A. euedes* ]'
- 3211 for '*C. leopoldi*' read '*C. leopoldoi*'
- 3257 after '*Hippobosca maculata*' insert '[*H. variegata* ]'



# Volume 77 (1989) continued

## Abstract No.

- 3278 for 'akamushi' read 'akamusi'
- 3317 for 'STEEL, G. M.' read 'STEELE, G. M.'
- 3384 for '*T. brantsii*' read '*T. brantsi*'
- 3425 after '*Oreochromis niloticus*' insert '*[Tilapia nilotica]*'
- 3500 for '*P. herrera*' read '*P. herreri*'
- 3599 for '*C. cantaneii*' read '*C. cataneii*'
- 3600 for '*S. firmata*' read '*S. firmatus*'
- 3600 after '*S. firmatus*' insert '*[S. bedfordi]*'
- 3635 for '*Liatonga*' read '*Liatongus*'
- 3708 for '*kinneri*' read '*kinneari*'
- 3719 after '*Ornithodoros porcinus*' insert '*[O. moubata porcinus]*'
- 3729 after '*Microtus oeconomus*' insert '*[M. limnophilus]*'
- 3801 after '*Sarotherodon melanotheron*' insert '*[T. melanotheron]*'
- 4066 after '*H. titillans*' insert '*[H. thirouxi titillans]*'

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- Zoophthora*, biology, reviews 4291
- Zooplankton**, carbaryl, effects 1136
- Zygodontomys lasiurus* (see *Bolomys lasiurus*)
- Zygoribatula*, pastures, China 3767





## LIST OF SERIALS ABSTRACTED

Listed below are the titles of the serial publications (excluding most annual reports and conference proceedings) abstracted during 1989 for this journal. All the titles are given in full, except abbreviated titles taken from secondary publications such as *Referativnyi Zhurnal*.

Many other serials were scanned during 1989 but no relevant articles were selected. A full list of all the serials scanned for items suitable for abstracting for the CAB ABSTRACTS database and the whole range of CABI's abstract journals is given in the *CAB International Serials Checklist, 1988 edition*. The publication includes ISSN's and publishers' addresses. See a separate page of this Index for details.

- Abhandlungen und Berichte des Naturkundemuseums Görlitz, German Democratic Republic  
 Acarologia  
 ACIAR Proceedings Series, Australian Centre for International Agricultural Research  
 ACS Symposium Series, American Chemical Society  
 Acta Amazonica  
 Acta Biochimica et Biophysica Sinica  
 Acta Biologica Hungarica  
 Acta Dermato-Venerologica  
 Acta Entomologica Bohemoslovaca  
 Acta Entomologica Chilena  
 Acta Entomologica Fennica  
 Acta Entomologica Jugoslavica  
 Acta Entomologica Lituonica  
 Acta Entomologica Sinica  
 Acta Facultatis Rerum Naturalium Universitatis Comenianae, Zoologia  
 Acta Faunistica Entomologica Musei Nationalis Pragae  
 Acta Medica Veterinaria  
 Acta Oecologica, Oecologia Applicata  
 Acta Oecologica, Oecologia Generalis  
 Acta Parasitologica Lituonica  
 Acta Parasitologica Polonica  
 Acta Pathologica Microbiologica et Immunologica Scandinavica  
 Acta Physiologica et Pharmacologica Latinoamericana  
 Acta Phytopathologica et Entomologica Hungarica  
 Acta Protozoologica  
 Acta Tropica  
 Acta Universitatis Upsaliensis  
 Acta Veterinaria et Zootechnica Sinica  
 Acta Virologica  
 Acta Zoologica et Pathologica Antverpiensia  
 Acta Zoologica Mexicana  
 Acta Zoologica Sinica  
 Advances in Comparative and Environmental Physiology  
 Afrique Médicale  
 Agri-Practice  
 Agricultural and Biological Chemistry  
 Agricultural History  
 Agricultural Research, USA  
 Agricultural Zoology Reviews  
 Agriculture and Forestry Bulletin, University of Alberta  
 Agriculture, Ecosystems and Environment  
 Agrokhimiya  
 AIDS  
 Alexandria Journal of Agricultural Research  
 Allergologia et Immunopathologia  
 Allergologie  
 Allergy  
 Ambio  
 American Journal of Clinical Pathology  
 American Journal of Emergency Medicine  
 American Journal of Epidemiology  
 American Journal of Industrial Medicine  
 American Journal of Physiology  
 American Journal of Public Health  
 American Journal of the Medical Sciences  
 American Journal of Tropical Medicine and Hygiene  
 American Journal of Veterinary Research  
 American Midland Naturalist  
 American Naturalist  
 American Zoologist  
 Anais da Sociedade Entomológica do Brasil  
 Anais do Instituto de Higiene e Medicina Tropical  
 Anales de la Sociedad Científica Argentina  
 Analytica Chimica Acta  
 Analytical Biochemistry  
 Analytical Chemistry  
 Angewandte Parasitologie  
 Animal Behaviour  
 Animal Technology  
 Animalis Familiaris  
 Annales de Dermatologie et de Vénérologie  
 Annales de l'Institut Pasteur, Virologie  
 Annales de la Société Belge de Médecine Tropicale  
 Annales de la Société Entomologique de France  
 Annales de Médecine Interne  
 Annales de Médecine Vétérinaire  
 Annales de Parasitologie Humaine et Comparée  
 Annales de Pédiatrie  
 Annales de Recherches Vétérinaires  
 Annales Entomologici Fennici  
 Annales Zoologici Fennici  
 Annals of Agricultural Science, Ain Shams University  
 Annals of Agricultural Science, Moshtohor  
 Annals of Allergy  
 Annals of Internal Medicine  
 Annals of Kurashiki Central Hospital  
 Annals of Ophthalmology  
 Annals of Plastic Surgery  
 Annals of the Entomological Society of America  
 Annals of the New York Academy of Sciences  
 Annals of Tropical Medicine and Parasitology  
 Annotationes Zoologicae et Botanicae  
 Annual Bulletin of the Society of Parasitology, Guangdong Province  
 Annual Report of the Society of Plant Protection of North Japan  
 Annual Report of the Tokyo Metropolitan Research Laboratory of Public Health  
 Annual Review of Ecology and Systematics  
 Annual Review of Entomology  
 Annual Review of Microbiology  
 Antenna  
 Antonie van Leeuwenhoek  
 Anzeiger für Schädlingskunde, Pflanzenschutz, Umweltschutz  
 Applied and Environmental Microbiology  
 Applied Entomology and Zoology  
 Applied Microbiology and Biotechnology  
 Aquaculture  
 Aquaculture and Fisheries Management  
 Aquatic Insects  
 Aquatic Toxicology  
 Arab Gulf Journal of Scientific Research  
 Archiv für Experimentelle Veterinärmedizin  
 Archiv für Hydrobiologie  
 Archiv für Protistenkunde  
 Archives de l'Institut Pasteur de Madagascar  
 Archives de l'Institut Razi  
 Archives Françaises de Pédiatrie  
 Archives of Dermatology  
 Archives of Environmental Contamination and Toxicology  
 Archives of Insect Biochemistry and Physiology  
 Archives of Internal Medicine  
 Archives of Microbiology  
 Arkansas Farm Research  
 Arquivo Brasileiro de Medicina Veterinária e Zootecnia  
 Arquivos da Escola de Medicina Veterinária da Universidade Federal da Bahia  
 Ars Veterinaria  
 Asian Medical Journal  
 Asian Pacific Journal of Allergy and Immunology  
 Aspects of Applied Biology  
 Assiut Journal of Agricultural Sciences  
 Assiut Veterinary Medical Journal  
 Australian Journal of Agricultural Research  
 Australian Journal of Biological Sciences  
 Australian Journal of Experimental Agriculture  
 Australian Journal of Experimental Biology and Medical Science  
 Australian Journal of Marine and Freshwater Research  
 Australian Journal of Zoology  
 Australian Rangeland Journal  
 Australian Veterinary Journal  
 Australian Wildlife Research  
 Avances en Ciencias Veterinarias  
 Avian Diseases  
 Avian Pathology

- Bamidgeh  
 Bangladesh Medical Journal  
 Behavior Genetics  
 Behavioral Ecology and Sociobiology  
 Behaviour  
 Behavioural Processes  
 Beiträge zur Entomologie  
 Berliner und Münchener Tierärztliche Wochenschrift  
 Bio/Technology  
 Biochemical and Biophysical Research Communications  
 Biochemical Genetics  
 Biochemical Journal  
 Biochemical Pharmacology  
 Biochemical Society Transactions  
 Biochemical Systematics and Ecology  
 Biochemistry and Cell Biology  
 Biochimica et Biophysica Acta, B (Bioenergetics)  
 Biochimica et Biophysica Acta, M (Biomembranes)  
 Biofutur  
 Biokhimiya  
 Biológia, Czechoslovakia  
 Biological Journal of the Linnean Society  
 Biologicheskii Nauki  
 Biologicheskii Zhurnal Armenii  
 Biologicheskii Zhurnal Uzbekistana  
 Biológico  
 Biologizace a Chemizace Živočišné Výroby, Veterinaria  
 Biology of the Cell  
 Biološki Vestnik  
 Bioorganicheskaya Khimiya  
 Biotechnology Letters  
 Biotropica  
 Bollettino dell'Istituto di Entomologia della Università degli Studi di Bologna  
 Bollettino del Museo Civico di Storia Naturale di Venezia  
 Bollettino dell'Istituto di Entomologia 'Guido Grandi' della Università degli Studi di Bologna  
 Bollettino dell'Istituto Sieroterapico Milanese  
 Bollettino della Società Entomologica Italiana  
 Brazilian Journal of Medical and Biological Research  
 British Heart Journal  
 British Journal of Dermatology  
 British Journal of Entomology and Natural History  
 British Journal of Hospital Medicine  
 British Journal of Industrial Medicine  
 British Journal of Ophthalmology  
 British Journal of Urology  
 British Medical Journal  
 British Veterinary Journal  
 Bulletin d'Ecologie  
 Bulletin de l'Institut Pasteur, France  
 Bulletin de la Société de Pathologie Exotique et de ses Filiales  
 Bulletin de la Société Entomologique de France  
 Bulletin de la Société Française de Parasitologie  
 Bulletin de la Société Zoologique de France  
 Bulletin des G.T.V.  
 Bulletin Mensuel de la Société Vétérinaire Pratique de France  
 Bulletin of Animal Health and Production in Africa  
 Bulletin of Endemic Diseases  
 Bulletin of Entomological Research  
 Bulletin of Environmental Contamination and Toxicology  
 Bulletin of Marine Science  
 Bulletin of Mathematical Biology  
 Bulletin of the British Museum (Natural History), Entomology  
 Bulletin of the Entomological Society of America  
 Bulletin of the Institute of Maritime and Tropical Medicine in Gdynia  
 Bulletin of the National Institute of Agro-Environmental Sciences, Japan (Nogyo Kankyo Gijutsu Kenkyusho Hokoku)  
 Bulletin of the Pan American Health Organization  
 Bulletin of the Society of Vector Ecologists  
 Bulletin, Department of Scientific and Industrial Research, New Zealand  
 Byulleten' Moskovskogo Obshchestva Ispytatelei Prirody, Biologicheskii  
 Byulleten' Vsesoyuznogo Instituta Gel'mintologii im. K.I. Skryabina  
 Cahiers des Naturalistes, Bulletin des Naturalistes Parisiens  
 Cahiers ORSTOM, Entomologie Médicale et Parasitologie  
 Canadian Entomologist  
 Canadian Field-Naturalist  
 Canadian Journal of Botany  
 Canadian Journal of Chemistry  
 Canadian Journal of Fisheries and Aquatic Sciences  
 Canadian Journal of Microbiology  
 Canadian Journal of Physiology and Pharmacology  
 Canadian Journal of Plant Science  
 Canadian Journal of Zoology  
 Canadian Medical Association Journal  
 Canadian Veterinary Journal  
 Carcinogenesis  
 Catalogue of Palaearctic Diptera  
 Cell and Tissue Research  
 Cell Biology International Reports  
 Cellular and Molecular Biology  
 Československá Epidemiologie, Mikrobiologie, Imunologie  
 Ceylon Journal of Science, Biological Sciences  
 Chemistry and Industry  
 Chemosphere  
 Chinese Journal of Biological Control  
 Chinese Journal of Epidemiology  
 Chinese Journal of Parasitology and Parasitic Diseases  
 Chinese Journal of Preventive Medicine (Zhonghua Yufang Yixue Zazhi)  
 Chinese Journal of Veterinary Medicine  
 Chinese Journal of Veterinary Science and Technology  
 Chinese Journal of Virology  
 Chinese Medical Journal  
 Chromatographia  
 Chromosoma  
 Chronobiologia  
 Chronobiology International  
 Ciência e Cultura  
 Ciencias Veterinarias, Costa Rica  
 Clinical Allergy  
 Clinical and Experimental Pharmacology & Physiology  
 Clinical Chemistry  
 Clinical Laboratory Science  
 Clinical Pharmacology  
 Clinical Reviews in Allergy  
 Coleopterists' Bulletin  
 Comparative Biochemistry and Physiology, A (Comparative Physiology)  
 Comparative Biochemistry and Physiology, B (Comparative Biochemistry)  
 Comparative Biochemistry and Physiology, C (Comparative Pharmacology and Toxicology)  
 Comparative Pathology Bulletin  
 Comparative Physiology and Ecology  
 Compendium on Continuing Education for the Practicing Veterinarian  
 Comptes Rendus de l'Académie des Sciences, III (Sciences de la Vie)  
 Comptes Rendus des Séances de la Société de Biologie et de ses Filiales, France  
 Contact Dermatitis  
 Contributions of the American Entomological Institute  
 Copeia  
 CRC Critical Reviews in Biotechnology  
 CRC Critical Reviews in Microbiology  
 CRC handbook of natural pesticides  
 Current Genetics  
 Current Microbiology  
 Current Science, India  
 Cutis  
 Cytobios  
 Cytologia  
 Czechoslovak Bibliography on Epidemiology and Microbiology  
 Dansk Veterinaertidsskrift  
 Dermatologica  
 Dermatologische Monatsschrift  
 Dermatosen in Beruf und Umwelt  
 Deutsche Medizinische Wochenschrift  
 Developmental and Comparative Immunology  
 Developmental Biology  
 Dissertation Abstracts International, B (Sciences and Engineering)  
 Doga, Türk Zooloji Dergisi  
 Doga, Veterinerlik ve Hayvancılık  
 Doklady Akademii Nauk SSSR  
 Down to Earth  
 Drug Intelligence and Clinical Pharmacy  
 East African Medical Journal  
 Ecological Entomology  
 Ecological Modelling  
 Ecology  
 Ecotoxicology and Environmental Safety  
 Eisei Kagaku (Japanese Journal of Toxicology and Environmental Health)  
 Èkologiya  
 EMBO Journal  
 Endeavour  
 Entomofauna  
 Entomologia Experimentalis et Applicata  
 Entomologia Generalis  
 Entomologica Scandinavica  
 Entomological News  
 Entomological Research Bulletin, Korea Republic  
 Entomological Review of Japan  
 Èntomologicheskoe Obzorenie  
 Entomologische Berichten  
 Entomologische Blätter  
 Entomologische Mitteilungen aus dem Zoologischen Museum Hamburg



- Entomologische Nachrichten und Berichte  
 Entomologische Zeitschrift  
 Entomologisk Tidskrift  
 Entomologiske Meddelelser  
 Entomologist  
 Entomologist's Gazette  
 Entomologist's Monthly Magazine  
 Entomology Circular, Division of Plant Industry, Florida Department of Agriculture and Consumer Services  
 Entomon  
 Entomophaga  
 Entomotaxonomia  
 Environment and Ecology  
 Environment International  
 Environmental Entomology  
 Environmental Pollution  
 Environmental Science and Technology  
 Environmental Toxicology and Chemistry  
 Eos, Spain  
 Epidemiology and Infection  
 Equine Practice  
 Equine Veterinary Data  
 Equine Veterinary Journal  
 Estuaries  
 Etlik Veteriner Mikrobiyoloji Enstitüsü Dergisi  
 European Directory of Agrochemical Products  
 European Journal of Biochemistry  
 European Journal of Clinical Microbiology & Infectious Diseases  
 European Journal of Epidemiology  
 European Journal of Pharmacology  
 European Journal of Protistology  
 Evolution  
 Experientia  
 Experimental & Applied Acarology  
 Experimental Biology  
 Experimental Cell Research  
 Experimental Gerontology  
 Experimental Parasitology  
 Extension Bulletin, Cooperative Extension, College of Agriculture, Washington State University  
 Farming in South Africa  
 Fauna och Flora  
 Fauna of New Zealand  
 Fauna of Saudia Arabia  
 FEBS Letters  
 FEMS Microbiology Letters  
 Field Studies  
 Fieldiana Zoology  
 Fitoterapia  
 Florida Entomologist  
 Folia Biologica, Poland  
 Folia Entomologica Hungarica  
 Folia Entomológica Mexicana  
 Folia Parasitologica  
 Folia Veterinaria  
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 Food Additives and Contaminants  
 Food Australia  
 Forensic Science International  
 Fragmenta Entomologica  
 Freshwater Biology  
 Fundamental and Applied Toxicology  
 GDS Informations Sanitaires  
 Gene  
 General and Applied Entomology  
 General and Comparative Endocrinology  
 Genetica  
 Genome  
 Gewasbescherming  
 Gigena i Sanitariya  
 Giornale Italiano di Dermatologia e Venereologia  
 Graellsia  
 Grass and Forage Science  
 Great Basin Naturalist  
 Great Lakes Entomologist  
 Handbooks for the Identification of British Insects  
 Harefuah  
 Hautarzt  
 Helminthologia  
 Heredity  
 Hilgardia  
 Histochemistry  
 Home Economics Research Journal  
 Hospital Practice  
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 Hydrobiologia  
 IMA Journal of Mathematics Applied in Medicine and Biology  
 Immunology  
 Impact of Science on Society  
 In Vitro Cellular & Developmental Biology  
 Index to Theses Accepted for Higher Degrees in the Universities of Great Britain and Ireland  
 Indian Journal of Animal Production and Management  
 Indian Journal of Animal Research  
 Indian Journal of Animal Sciences  
 Indian Journal of Biochemistry and Biophysics  
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 Indian Journal of Experimental Biology  
 Indian Journal of Medical Research  
 Indian Journal of Parasitology  
 Indian Journal of Public Health  
 Indian Journal of Veterinary Medicine  
 Indian Veterinary Journal  
 Industrie Alimentari  
 Insect Biochemistry  
 Insect Knowledge (Kunchong Zhishi)  
 Insect Pest Survey, Tasmanian Department of Agriculture  
 Insect Science and its Application  
 Insectes Sociaux  
 Insecticide and Acaricide Tests  
 International Archives of Allergy and Applied Immunology  
 International Clinical Psychopharmacology  
 International Journal for Parasitology  
 International Journal for Vitamin and Nutrition Research  
 International Journal of Acarology  
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 International Journal of Environmental Analytical Chemistry  
 International Journal of Epidemiology  
 International Journal of Insect Morphology and Embryology  
 International Journal of Invertebrate Reproduction and Development  
 International Journal of Oral and Maxillofacial Surgery  
 International Journal of Peptide and Protein Research  
 International Journal of Radiation Applications and Instrumentation, A (Applied Radiation and Isotopes)  
 International Journal of Systematic Bacteriology  
 International Ophthalmology  
 International Pest Control  
 International Rice Research Newsletter  
 Internationale Revue der Gesamten Hydrobiologie  
 Invertebrate Reproduction and Development  
 Invertebrate Taxonomy  
 Investigação Agrária  
 Investigación Agraria, Producción y Protección Vegetales  
 IPM Practitioner  
 Iranian Journal of Public Health  
 Iraqi Journal of Agricultural Sciences, 'ZANCO'  
 Irish Naturalists' Journal  
 Irish Veterinary News  
 Israel Journal of Medical Sciences  
 Israel Journal of Veterinary Medicine  
 Izvestiya Akademii Nauk Kazakhskoi SSR, Biologicheskaya  
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 Izvestiya Akademii Nauk Turkmenskoi SSR, Biologicheskikh Nauk  
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 Japanese Journal of Applied Entomology and Zoology  
 Japanese Journal of Experimental Medicine  
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 Japanese Journal of Sanitary Zoology  
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 Japanese Journal of Veterinary Science  
 Journal für Ornithologie  
 Journal of Advanced Zoology  
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 Journal of Analytical Chemistry of the USSR  
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- Journal of Communicable Diseases  
 Journal of Comparative Neurology  
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 Journal of Crustacean Biology  
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 Journal of Emergency Medicine  
 Journal of Endocrinology  
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 Journal of Environmental Biology  
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 Journal of Environmental Science and Health, B (Pesticides, Food Contaminants, and Agricultural Wastes)  
 Journal of Experimental Biology  
 Journal of Experimental Zoology  
 Journal of Fish Biology  
 Journal of Fish Diseases  
 Journal of General Virology  
 Journal of Genetics  
 Journal of Helminthology  
 Journal of Heredity  
 Journal of Hygiene, Epidemiology, Microbiology and Immunology  
 Journal of Industrial Microbiology  
 Journal of Infectious Diseases  
 Journal of Insect Behavior  
 Journal of Insect Physiology  
 Journal of Invertebrate Pathology  
 Journal of Japanese Society of Grassland Science  
 Journal of Labelled Compounds and Radiopharmaceuticals  
 Journal of Mathematical Biology  
 Journal of Medical Entomology  
 Journal of Microbiological Methods  
 Journal of Molecular Biology  
 Journal of Molecular Evolution  
 Journal of Morphology  
 Journal of Natural History  
 Journal of Natural Products  
 Journal of Nematology  
 Journal of Neuroscience  
 Journal of Occupational Medicine  
 Journal of Oral Medicine  
 Journal of Parasitology  
 Journal of Pediatrics  
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 Journal of Physiology  
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 Journal of Scientific and Industrial Research  
 Journal of Small Animal Practice  
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 Journal of the American Academy of Dermatology  
 Journal of the American Medical Association  
 Journal of the American Mosquito Control Association  
 Journal of the American Optometric Association  
 Journal of the American Veterinary Medical Association  
 Journal of the Andaman Science Association  
 Journal of the Australian Entomological Society  
 Journal of the Chemical Society, Perkin Transactions I  
 Journal of the College of Dairying, Japan, Natural Science  
 Journal of the Egyptian Society of Parasitology  
 Journal of the Egyptian Veterinary Medical Association  
 Journal of the Entomological Society of British Columbia  
 Journal of the Faculty of Agriculture, Kyushu University  
 Journal of the Food Hygienic Society of Japan  
 Journal of the Indian Institute of Science  
 Journal of the Indian Medical Association  
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 Journal of the Kansas Entomological Society  
 Journal of the Marine Biological Association of the United Kingdom  
 Journal of the New York Entomological Society  
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 Journal of the Royal Society of Health, UK  
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 Journal of the South African Veterinary Association  
 Journal of the University of Kuwait, Science  
 Journal of Theoretical Biology  
 Journal of Toxicology, Toxin Reviews  
 Journal of Tropical Ecology  
 Journal of Tropical Medicine and Hygiene  
 Journal of Veterinary Medicine, B (Infectious Diseases, Immunology, Food Hygiene, Veterinary Public Health)  
 Journal of Veterinary Pharmacology and Therapeutics  
 Journal of Virological Methods  
 Journal of Virology  
 Journal of Wildlife Diseases  
 Journal of Wildlife Management  
 Journal of Zoo Animal Medicine  
 Journal of Zoology  
 Katalog Fauny Polski  
 Kerteszlet es Szoleszet  
 Khimiya v Sel'skom Khozaystve  
 Kleintierpraxis  
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 Klucze do Oznaczenia Owadów Polski  
 Koedoe  
 Kontyu  
 Korean Journal of Applied Entomology  
 Korean Journal of Entomology  
 Korean Journal of Parasitology  
 La Difesa delle Pianta  
 Laboratornoe Delo  
 Laboratory Animal Science  
 Läkartidningen  
 Lancet  
 Laryngologie, Rhinologie, Otologie  
 Letters in Applied Microbiology  
 Liebigs Annalen der Chemie  
 Life Sciences  
 Limnology and Oceanography  
 Lucrări Ştiinţifice Institutul Agronomic "Nicolae Bălcescu", C (Medicină Veterinară)  
 Magyar Allatorvosok Lapja  
 Malaysian Agricultural Journal  
 Mechanisms of Ageing and Development  
 Médecin Vétérinaire du Québec  
 Médecine d'Afrique Noire  
 Médecine et Maladies Infectieuses  
 Mededelingen van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent  
 Medical and Veterinary Entomology  
 Medical History  
 Medical Journal of Australia  
 Medicina Veterinaria  
 Medicinal & Aromatic Plants Abstracts  
 Meditsinskaya Parazitologiya i Parazitarnye Bolezni  
 Medizinische Welt  
 Medycyna Weterynaryjna  
 Memoirs of the Queensland Museum  
 Memoranda Societatis pro Fauna et Flora Fennica  
 Memórias do Instituto Oswaldo Cruz  
 Microbiological Reviews  
 Microbiological Sciences  
 Microbiology and Immunology  
 Microbiology, USA  
 Military Medicine  
 Mitteilungen aus dem Zoologischen Museum in Berlin  
 Mitteilungen aus der Biologischen Bundesanstalt für Land- und Forstwirtschaft  
 Mitteilungen der Deutschen Gesellschaft für Allgemeine und Angewandte Entomologie  
 Mitteilungen der Österreichischen Gesellschaft für Tropenmedizin und Parasitologie  
 Mitteilungen der Schweizerischen Entomologischen Gesellschaft  
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 Molecular and Biochemical Parasitology  
 Molecular and Cellular Biology  
 Molecular and Cellular Endocrinology  
 Molecular and General Genetics  
 Molecular Immunology  
 Molecular Microbiology  
 Monatshefte für Veterinärmedizin  
 Monatsschrift für Kinderheilkunde  
 Mosquito Systematics  
 Mosquito-Borne Diseases Bulletin  
 Münchener Medizinische Wochenschrift  
 Mutation Research  
 Mycologia  
 Mycopathologia  
 Mycotaxon  
 National Academy Science Letters, India  
 Natural Enemies of Insects  
 Natural History  
 Nature, UK  
 Nauchnye Doklady Vysshet Shkoly, Biologicheskije Nauki, Moscow  
 Nematologia Mediterranea  
 Nematologica  
 Nervenarzt  
 Netherlands Journal of Zoology  
 Neuroscience Letters  
 Neurotoxicology and Teratology  
 New England Journal of Medicine  
 New Mexico Journal of Science  
 New Zealand Journal of Marine and Freshwater Research  
 New Zealand Journal of Zoology  
 New Zealand Medical Journal



- Newsletter, Centre for Tropical Veterinary Medicine, University of Edinburgh  
 Nigerian Journal of Entomology  
 Nippon Nogeikagaku Kaishi  
 Nippon Suisan Gakkaishi (Bulletin of the Japanese Society of Scientific Fisheries)  
 Nordisk Veterinærmedicin  
 Norsk Veterinærtidsskrift  
 North Carolina Medical Journal  
 North Central Journal of Agricultural Economics  
 Notas del Museo de la Plata, Facultad de Ciencias Naturales y Museo, Universidad Nacional de la Plata, Zoología  
 Notulae Entomologicae  
 Nouvelle Revue d'Entomologie  
 Nova Hedwigia  
 Növényvédelem  
 Nucleic Acids Research  
 Nucleus, India  
 Obiettivi e Documenti Veterinari  
 Occasional Symposium, British Grassland Society  
 Oecologia  
 Öffentliche Gesundheitswesen  
 Onderstepoort Journal of Veterinary Research  
 Ophthalmologica  
 Ophthalmology  
 Oriental Insects  
 ORSTOM Actualités  
 Outlook on Agriculture  
 Oxford Surveys in Evolutionary Biology  
 Pacific Northwest Cooperative Extension Publication  
 Pacific Science  
 Pakistan Journal of Scientific and Industrial Research  
 Pan-Pacific Entomologist  
 Papua New Guinea Medical Journal  
 Parasite Immunology  
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 Parasitology Research  
 Parasitology Today  
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 Pediatric Annals  
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 Pediatric Infectious Disease Journal  
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 Pesquisa Veterinária Brasileira  
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 Pesticides  
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 Pharmacology and Therapeutics  
 Philippine Entomologist  
 Philippine Journal of Science  
 Philosophical Transactions of the Royal Society of London, B (Biological Sciences)  
 Physiological Entomology  
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 Phytochemistry  
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 Polar Biology  
 Polskie Pismo Entomologiczne  
 Poultry Adviser  
 Poultry Science  
 Practitioner  
 Pratique Médicale & Chirurgicale de l'Animal de Compagnie  
 Presse Médicale  
 Preventive Veterinary Medicine  
 Proceedings and Papers of the Annual Conference of the California Mosquito and Vector Control Association  
 Proceedings of the Biological Society of Washington  
 Proceedings of the Entomological Society of Ontario  
 Proceedings of the Entomological Society of Washington  
 Proceedings of the Hawaiian Entomological Society  
 Proceedings of the Helminthological Society of Washington  
 Proceedings of the Indian Academy of Sciences, Animal Sciences  
 Proceedings of the Indian National Science Academy, B (Biological Sciences)  
 Proceedings of the Linnean Society of New South Wales  
 Proceedings of the National Academy of Sciences of the United States of America  
 Proceedings of the Royal Society of Queensland  
 Producția Animală, Zootehnie și Medicină Veterinară  
 Przegląd Epidemiologiczny  
 Przegląd Zoologiczny  
 Psyche  
 Quantitative Structure-Activity Relationships  
 Quarterly Journal of Medicine  
 Quarterly Review of Biology  
 Queensland Naturalist  
 Redia  
 Repositório de Trabalhos do Laboratório Nacional de Investigação Veterinária  
 Research Bulletin of the Plant Protection Service, Japan  
 Research in Veterinary Science  
 Research Reports of the Rural Development Administration, Plant Environment, Mycology & Farm Products Utilization, Korea  
 Republic  
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Zoological Science  
Zoologicheskii Zhurnal  
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Zoologische Mededelingen uitgegeven door het Rijksmuseum van Natuurlijke Historie te Leiden  
Zoomorphology



# CAB INTERNATIONAL INFORMATION SERVICES PRODUCTS AND SERVICES

Almost 100 scientists/linguists in the 11 Bureaux of CABI's Information Services at Wallingford, UK, with help from associated organizations and individuals worldwide, abstract and index the significant research and development literature in agriculture, forestry and allied disciplines. Over 10,000 serials and many other publications are scanned, and approximately 130,000 bibliographic records are compiled each year. From this computerized database is derived a wide range of information services and products in hard copy and machine-readable form, designed to meet a variety of customer needs.

## HARD COPY PRODUCTS

### Abstract journals

The following abstract journals on specific disciplines, specialist crops or products, or particular livestock are published, mostly monthly or quarterly. Each has author and subject indexes, cumulated annually in a special issue of the journal.

### Animal Science and Production

*Animal Breeding Abstracts; Dairy Science Abstracts; Nutrition Abstracts & Reviews, Series B-Livestock Feeds & Feeding; Pig News & Information; Poultry Abstracts.*

### Veterinary Science and Parasitic Diseases

*Helminthological Abstracts; Index Veterinarius; Protozoological Abstracts; Review of Medical & Veterinary Entomology; Review of Medical & Veterinary Mycology; Veterinary Bulletin.*

### Crop Science and Production

*Crop Physiology Abstracts; Faba Bean Abstracts; Field Crop Abstracts; Herbage Abstracts; Horticultural Abstracts; Irrigation & Drainage Abstracts; Maize Abstracts; Ornamental Horticulture; Plant Breeding Abstracts; Plant Growth Regulator Abstracts; Postharvest News and Information; Potato Abstracts; Rice Abstracts; Seed Abstracts; Soils & Fertilizers; Sorghum & Millets Abstracts; Soyabean Abstracts; Wheat, Barley & Triticale Abstracts.*

### Forestry

*Agroforestry Abstracts; Forest Products Abstracts; Forestry Abstracts.*

### Crop Protection

*Biocontrol News & Information; Nematological Abstracts; Review of Agricultural Entomology; Review of Plant Pathology; Weed Abstracts.*

### Economics, Development and Sociology

*Leisure, Recreation & Tourism Abstracts; Rural Development Abstracts; World Agricultural Economics & Rural Sociology Abstracts.*

### Machinery and Buildings

*Agricultural Engineering Abstracts.*

### Human Nutrition

*Nutrition Abstracts & Reviews, Series A-Human & Experimental.*

### Biotechnology/Biodeterioration

*AgBiotech News & Information; Biodeterioration Abstracts.*

Also published is a series of current awareness publications (CAB Prompts) on specific crops. Subject indexes are not provided. Titles in the series so far are: *Groundnuts* and *Chickpeas/Pigeonpeas*. In addition, many retrospective compilations of abstracts (Annotated Bibliographies) on various topics are available on demand.

### SDI Service

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## CAB Alerts

This is a special SDI service providing subscribers each month with the search results from standard profiles chosen by CABI. Numerous titles are available and the list is regularly updated to reflect new subject interests. Output is available on computer printout posted by airmail.

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### CAB ABSTRACTS on Compact Disc

The database is also available on CD-ROM (Compact Disc Read Only Memory). Volume one contains bibliographic citations and abstracts for 1984-86; the second volume contains the 1987-89 data. CD-ROM technology provides an online search capability without the worries of cost or telecommunication problems. An IBM or fully IBM-compatible PC, 640 K RAM, MS-DOS or PC-DOS version 2.1 or higher, and a CD-ROM player are needed. The SPIRS (SilverPlatter Information Retrieval System) software allows maximum search flexibility.

### Magnetic tapes

Organizations with access to mini or mainframe computers may lease all or part of CAB ABSTRACTS on magnetic tape. Update tapes are issued monthly, and retrospective tapes as required.

## OTHER PRODUCTS AND SERVICES

### Document Delivery Service

Photocopies of originals of most articles included in the database are available from CABI Library Services, Silwood Park, Ascot, UK. Documents may also be ordered online via DIALOG's DIALORDER or ESA/IRS's PRIMORDIAL.

### Books and serial publications

CABI publishes authoritative reference books, directories and serial publications, the latter including *Bulletin of Entomological Research*, *Outlook on Agriculture*, *Index of Current Research on Pigs*, *Distribution Maps of Pests*, *Distribution Maps of Plant Diseases*, *Bibliography of Systematic Mycology*, *Descriptions of Pathogenic Fungi & Bacteria*, *Index of Fungi*, and *Systema Ascomycetum*. CABI is a co-sponsor of the International Food Information Service which publishes *Food Science & Technology Abstracts*.

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### The Organization

CAB International (CABI) is an international, inter-governmental organization registered with the United Nations. It is owned and administered by its member governments; these currently number 29, but membership is open to all governments who wish to participate. Established in 1928, the organization provides information, scientific, and development services for agriculture and allied disciplines throughout the world.

### Information Services

The main task of the Information Services, located at the CAB International Centre (CABIC) at Wallingford, is the creation of a bibliographic database of research on agriculture, forestry and allied disciplines, including social sciences and aspects of human medicine. Abstract journals derived from the database, and online access to it, provide a unique source of information for research scientists, development planners, educators and students. Subsidiary but growing tasks are the publication of primary journals and reference works, and training information professionals in developing countries.

The Accessions Unit acquires the relevant scientific and technical literature (ca 10,000 serials and over 5,000 other publications annually) for abstracting by almost 100 scientists/linguists in the following 11 Bureaux:

- Agricultural Economics
- Animal Breeding & Genetics
- Animal Health
- Dairy Science & Technology
- Nutrition
- Pastures & Field Crops
- Crop Protection
- Horticulture & Plantation Crops
- Plant Breeding & Genetics
- Soils
- Forestry

Further material is acquired and processed by collaborating or contracted organizations. Other staff coordinate work on specialized directories and databanks, and commission new books and primary journals. The Publications Unit is responsible for printing the journals and books, and the Marketing & Sales Division promotes and sells Information Services products and services world-wide (see inside back cover for details).

### Scientific Services

CABI's Scientific Services consist of four institutes and two support services:

*CAB International Institute of Entomology (CIE)*, Director Dr K.M. Harris, located at 56 Queen's Gate, London, and in the British Museum, Natural History.

*CAB International Mycological Institute (CMI)*, Director Professor D.L. Hawksworth, located at Ferry Lane, Kew, London, adjacent to the Royal Botanic Gardens.

*CAB International Institute of Parasitology (CIP)*, Director Dr R. Muller, located at Winches Farm, St Albans, the field station of the London School of Hygiene & Tropical Medicine.

These three Institutes provide an authoritative identification service for agricultural pests and other organisms, conduct research, implement projects, and provide training in their fields of expertise.

*CAB International Institute of Biological Control (CIBC)*, Director Dr D.J. Greathead, has its headquarters at Silwood Park, Ascot, the field station of Imperial College of Science and Technology, University of London. It has stations in Trinidad and Tobago, Switzerland, Pakistan, Kenya and Malaysia. It provides biocontrol services, conducts training, and participates in integrated pest management programmes.

*Development Services, (CDS)*, Head Mr D. Heydon, integrate the broad range of CABI expertise to provide advice and assistance with agricultural problems, but particularly those related to pest management and information services.

*Library Services*, Manager Mr C.J. Hamilton, have their headquarters with CIBC at Silwood Park, where the main Library is held, with additional literature collections at CMI, CIP, CDS and CABIC. Library Services operate a Document Delivery Service.

### Systems

The Systems Division provides computing resources and services to all parts of CABI. It maintains a central computing facility with telecommunications access to seven remote sites, including four CABI Institutes. CABIC is served by a modern Local Area Network which provides access to the computers, and by advanced office automation facilities. The main computers are DEC VAX systems and the principal software systems are BASIS for data management and information retrieval and PAGER for typesetting.

The staff of 20 includes database production personnel, systems analysts, programmers and computer operators. The principal systems are for the production of the CABI bibliographic database and associated functions, plus accessions control, subscription management and electronic publishing.

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